CHS induction generator 3 x 20 kW

Compact multi-channel induction generator

The CHS induction generator 3 × 20 kW is a compact, three-channel induction generator with an integrated PROFINET connection. It supplies up to three Kendrion induction coils with a maximum of 20 kW or 18 kW continuous power per channel.
The operating frequency is automatically adjusted to the connected load in the range of 13 to 16 kHz. The adjustment range from 0 to 100% can be specified independently for each channel.
Integrated functions for power measurement as well as short-circuit, resonance frequency and DC link monitoring support safe operation and simplify diagnostics.
Software updates are done via the SD card interface.
The water-cooled unit in a compact book-size housing is designed for mounting in enclosed control cabinets and offers high power density with a small footprint.

Features

- Independent control of up to 3 induction coils
- Up to 20 kW output power per channel
- Automatic operating point and frequency determination
- Integrated power, short-circuit, resonance frequency and DC link monitoring
- Integrated PROFINET IO Device
- SD card interface for maintenance and software updates
- Water cooling for high power density
- Compact book-size housing for control cabinet mounting

Technical data (preliminary)	610 630 00 CHS Induction Generator 3 x 20 kW
Load type	Kendrion induction coils. (Type HS10009/1)
Number of channels	3 channels individually controllable
Output power	3 x up to 20 kW, continuous power 3 x 18 kW
Working Frequency	13 ... 16 kHz, automatic operating point determination
Load supply	3 x 400VAC +10%/-15%; 50/60 Hz; Nets TT or TN,
Control Range	0 ... 100%, independent for each channel
Features	Integrated power measurement, short circuit detection, DC link monitoring, automatic frequency tuning, resonant frequency monitoring
Fieldbus interface	PROFINET IO-Device, (EtherCAT on request)
Power supply	Electronics supply 24 VDC, approx. 300 mA
Cooling	Water cooling flow temperature 25°C, power dissipation maximum 750 W
Assembly	Prepared for installation on control cabinet mounting plates
Degree of protection	IP 20, device for mounting in a closed, metallic control cabinet
Housing, (H x W x D) [mm]	Book Size Sheet Steel Enclosure with Stainless Steel Cover, (451 x 105 x 313)
Operating Temperature	Ambient temperature in vertical installation position: 0°C ... 45°C
Approvals	CE, Profinet

We reserve the rights of modification, omission, error with respect to the products. Illustrations similar. All rights reserved by the individual copyright holders. EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. Safety over EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. Microsoft®, Windows® and the Windows® Logo are registered trademarks of Microsoft Corporation in the USA and other countries. At www.plcopen.org you will find more information about PLCopen Organization. CODESYS is a product of 3S-Smart Software Solutions GmbH. CiA® and CANopen® are registered community trademarks of CAN in Automation e.V.